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JOHANNES GUTENBERG
UNIVERSITÄT MAINZ



RIND seminar on Mathematical Physics and String Theory

May 30, 2022 at 4 p.m. c.t.
Heidelberg

Joint seminar series on Mathematical Physics and String Theory

Maxim Zabzine
Uppsala U.

The index of M-theory and equivariant volumes

Abstract: Motivated by M-theory, I will review rank n K -theoretic Donaldson-Thomas theory on a toric threefold and its factorisation properties in the context of $5d/7d$ correspondence. In the context of this discussion I will revise the use of the Duistermaat-Heckman formula for non-compact toric Kahler manifolds, pointing out some mathematical and physical puzzles.

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